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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,074	03/13/2007	Gerhard Schwenk	SCHW3004/JJC	8660
23364 BACON & TH	7590 03/30/200 OMAS, PLLC	EXAMINER		
625 SLATERS	LANE	GRABOWSKI, KYLE ROBERT		
FOURTH FLOOR ALEXANDRIA, VA 22314-1176			ART UNIT	PAPER NUMBER
			3725	
			MAIL DATE	DELIVERY MODE
			03/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/575,074	SCHWENK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kyle Grabowski	3725			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 12 Fe This action is FINAL. 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-19 and 32-36 is/are pending in the a 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19 and 32-36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 07 April 2006 is/are: a)	r.	by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 09/20/07,11/12/08,02/12/09.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Election/Restrictions

1. Claims 20-31 and 37 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 02/12/09. The examiner respectfully disagrees with the arguments presented in respect to the restriction requirement being improper. The amended subject matter: the coding extending over a predominant part of a surface of the value document is taught in Weitzen (i.e. the coding extends over a predominant part of any surface that it is applied to, depending on how large the "part of a surface" is construed to be)

Claim Objections

2. If elected in the future, withdrawn claims 20-31 and 37 will be objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. If pursued in the future, applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. These method claims fail to properly further limit claim 1, which is an apparatus claim.

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3. Claim 13 is also objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. It repeats, verbatim, structure already presented in claim 1.

- 4. Claim 32 is objected to because of the following informalities: It is drawn to the "method according to claim 8" however claim 8 is an apparatus claim. Appropriate correction is required. For consideration on its merits, it is considered a typographical error with the intention of eliciting the "value document according to claim 8".
- 5. Claim 36 is objected to because of the following informalities: there is no proper antecedent basis for "said second marking substance". Appropriate correction is required. For consideration on its merits, it is considered a typographical error with the intention of disclosing "said second feature substance".

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-19, 32, and 35-36, are rejected under 35 U.S.C. 102(b) as being anticipated by Bratchley et al. (US 6,155,605).

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to be an area where the coding predominates.

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8. In respect to claims 1-4, 13, and 18, Bratchley et al. disclose a value document comprising: a value document substrate having two entities: at least one high security entity (HSE) and at least one low security entity (LSE), the HSE comprising a homogeneous (uniform) mixture of at least two components (Col. 3, 23-34); the LSE may be construed to be the "second feature substance" and the two components comprising the HSE may be construed to be the "first feature substance" and "third feature substance"; one entity (e.g. the HSE comprising the first and third feature substances) may be incorporated into the volume of the substrate (Col. 4, 57-61); the LSE comprising the second feature substance may be printed on the value document with a luminescent print (Col. 8, 35-65); the second feature substance extends over a "predominate part of a surface" of the document, the "part of a surface" being selected

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- 9. In respect to claims 5 and 6, Bratchley et al. disclose that the HSE and LSE (comprising the first, second, and third feature substances) may contain an array of materials including ones that exhibit luminescence et al. (Col. 5, 66 Col. 6, 7).
- 10. In respect to claims 8, 10-12, 14-15, and 32, Bratchley et al. disclose a bar code may comprise an additional element of the invention (e.g. LSE) construed to be the "fourth feature substance"; the fourth feature substance forming the bar code may comprise a plurality of substances including magnetic effects or IR/UV effects (Col. 5, 28-34); fluorescent effects may be may be invisible (Col. 4, 36-42); it is inherently disclosed that barcodes represent information of the article they are applied.

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is excitable (absorbent) in the IR range (Col. 8, 52-58).

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11. In respect to claim 9, Bratchley et al. disclose a medley of LSE (second and fourth feature substances) appropriate materials, including an antistokes coating which

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- 12. In respect to claims 16 and 17, Bratchley et al. disclose the substrate may be a paper or a plastic (which is coated or printed as disclosed above) (Col. 5, 7-8).
- 13. In respect to claim 19, Bratchley et al. does not disclose these methods of paper marking, however, although a product-by-process claim is limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).
- 14. In respect to claim 35, the feature substances may be coated on the value document therefore extending over a substantially total surface thereof (Col. 4, 64 Col. 5, 6).
- 15. In respect to claim 36, the "second feature substance" and "fourth feature substance" are merely nomenclature (and both part of the LSE). For this reason, claim 36 is rejected for the same reason as claims 7-8, 10-12, 14-15, and 32 above, which disclose the "fourth feature substance" as the bar code by substituting "second feature substance" in the rejection. Claim 36 is dependent on claims 1 and 14, which have not introduced a "fourth feature substance", so such a substitution is proper.

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Claim Rejections - 35 USC § 103

16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 17. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 18. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bratchley et al. (US 6,155,605) in view of Kaule (EP-B-0 052 624). Bratchley et al. substantially disclose the claimed subject matter for the reasons stated above including the inclusion of rare earth phosphors (Col. 12, Table 2) but do not disclose providing a host lattice doped with earth metals as the feature substance(s), however, as disclosed by the applicant, Kaule discloses embodiments of host lattice and dopant combinations (0018) and as such providing rare earth phosphors in this manner is known. All of the claimed elements were known in prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded predictable results to one of ordinary skill in the

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art at the time of the invention. It is known that rare earth phosphors may be manufactured within a host lattice (Kaule); it is known to provide rare earth phosphors in banknotes for security (Bratchley et al.). There is no unexpected result with providing the value document with the rare earth phosphor on the basis of a host lattice.

19. Claims 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bratchley et al. (US 6,155,605) in view of *Anti-Stokes Phosphors/Luminophors* (ASPL). Bratchley et al. substantially disclose the claimed subject matter for the reasons stated above including the usage of Anti-Stokes material but do not disclose particulars of their excitation (absorption) wavelengths. ASPL discloses an Anti-Stokes phosphor FAM-810/1000-1 having a basic excitation wavelength of 1.5-1.6 µm. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the Anti-Stokes phosphor FAM-810/1000-1 as a suitable material for the Anti-Stokes coating taught in Bratchley since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Conclusion

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyle Grabowski whose telephone number is (571)270-

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3518. The examiner can normally be reached on Monday-Thursday, every other

Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dana Ross can be reached on (571)272-4480. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kyle Grabowski/ Examiner, Art Unit 3725 /Dana Ross/ Supervisory Patent Examiner, Art Unit 3725